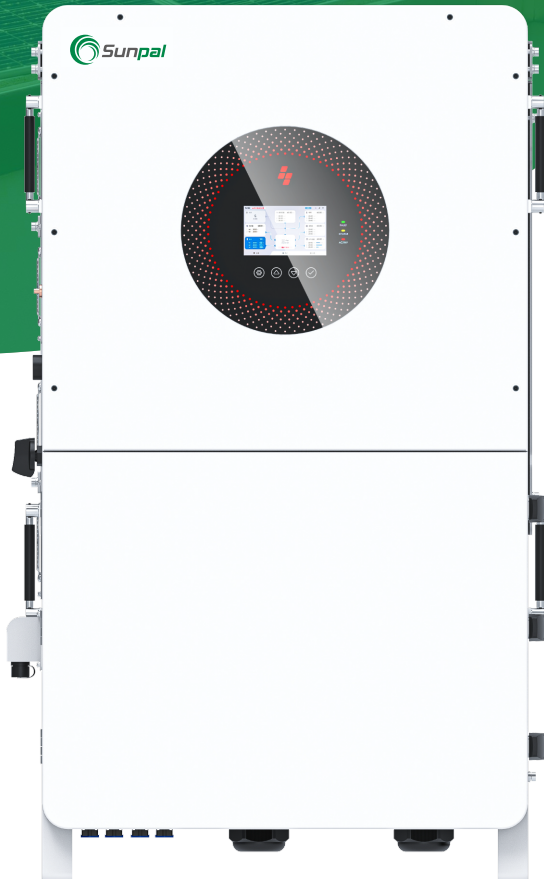




IESP 50~60kW

Three-Phase Hybrid Solar Storage Inverter

- ☐ 4 independent MPPT trackers, compatible with high-power PV modules
- ☐ DC over-sizing up to 1.8x
- ☐ Ultra-wide battery voltage range (150–820Vdc)
- ☐ Battery charge/discharge current 75A*2
- ☐ Max. AC grid-connected overload output of 1.1x
- ☐ 100% three-phase unbalanced load
- ☐ Supports diesel generator input
- ☐ DC arc fault detection
- ☐ AC/DC Surge Protection (Level II)
- ☐ IP65 waterproof protection degree

ABOUT SUNPAL

- ☐ 16 years in PV industry, committed to independent R&D and production.
- ☐ Holds over 200 patents in energy storage, with unique industry-leading technologies.
- ☐ Chooses top-quality international components to deliver high-value products to customers.
- ☐ Upholds values of customer priority, proactivity, responsibility, and innovative breakthroughs.

Model	IESP500SH3		IESP550SH3	IESP600SH3
AC OUTPUT				
Rated Output Power	50000W		55000W	60000W
Max. Apparent Power	60000VA		60500VA	66000VA
Peak Power (off-grid)	1.6 times of rated power, 10s			1.5 times of rated power, 10s
Rated Output Voltage	220/380Vac,230/400Vac （3L+N+PE）			
Rated Output Current	75.9A		83.6A	91.2A
Max. Output Current	91.2A		91.9A	100.3A
Load Motor Capacity	21HP		23HP	25HP
Power Factor	0.8 leading to 0.8 lagging			
THDI	<3% (of nominal power)			
Rated Frequency	50/60Hz ±0.3Hz			
Switch Time	10ms (typical value)			
Waveform	Pure sine wave			
BATTERY				
Battery Type	Lithium-ion Battery			
Number of Battery Input	2			
Battery Voltage Range	150-820Vdc			
Max. Charging/Discharging Current	150A (75A+75A)			
PV INPUT				
No. Of MPPT Trackers	4			
Max. PV Access Power	100kW		110kW	120kW
Max. PV Input Power	90000W		90000W	96000W
Rated PV Input Voltage	600Vdc			
Max. PV Input Voltage	1000Vdc			
Start-up Voltage	160Vdc			
Max. PV Input Current	40A*4			
Max. Short-circuit Current	60A*4			
MPPT Operating Voltage Range	150-850Vdc			
GRID/GENERATOR INPUT				
Rated Input Phase Voltage	3L/N/PE; 220/380V; 230/400V			
Rated Input Frequency	50/60Hz			
Max. Bypass Overload Current	200A			
EFFICIENCY				
MPPT Tracking Efficiency	>99%			
Max. Efficiency	98.1%			
European Efficiency	97.6%			
GENERAL DATA				
Parallel Capacity	1~9 Units （More than 2 units in parallel can form a three-phase output）			
Dimension	622x342x1010mm	Humidity		0~100%
Weight	98kg	Cooling Method		Heat sink + intelligent fan cooling
Protection Degree	IP65	Noise		<65dB
Temperature	-40 to +60℃, >45℃ Derate	Communication		RS485 / CAN / USB / Dry Contact
Warranty	5 yeas	External Module		Wi-Fi/4G Stick (Optional)
Certificate	EN50549,VDE4105,IEC62109-1,EC62109-2,EN61000-6-1, EN61000-6-3, FCC 15 class B			
PROTECTION				
PV Reverse Protection	Yes	Anti-Islanding Protection		Yes
Residual-Current Monitoring	Yes	Insulation Resistance Monitoring		Yes
Output Short-Circuit Protection	Yes	Output Over-Current Protection		Yes
Over-Voltage Protection	AC type III/DC type II	Surge Protection		AC type II/DC type II